BRUHAT BENGALURU MAHANAGARA PALIKE, YELAHANKA
PROJECTS DIVISION

Bruhat Bangaluru
Mahanagara Palike

Name of Work:- Development of Dobhighat in Ward No.01

EMB

"FIRST AND FINAL BILL"

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Bruhat Bengaluru
Mahanagara Palike

BRUHAT BENGALURU MAHANAGARA PALIKE, YELAHANKA
PROJECTS DIVISION

Name of Work:- Development of Dobhighat in Ward No.01

PRE-MEASUREMENT SHEETS

"FIRST AND FINAL BILL"

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(1)

BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka zone

Development of Dobhighat in Ward No.01

Bill- Pre Measurements 23-11-22

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity
				m	m	m	
1	KSRB 2-1 : Earthwork in surface excavation for levelling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 KSRB 2-1.1: - do - Ordinary soil (Pg no. 45 I.No 7.37)						
	Cum						
Excavation for SSM, Building		1	2.33	1.10	1.50		3.84
--do--		1	2.10	1.10	1.50		3.47
--do--		1	2.33	1.10	1.50		3.84
--do--		1	2.36	1.10	1.50		3.89
--do--		1	2.25	1.10	1.50		3.71
--do--		1	2.36	1.10	1.50		3.89
--do--		1	2.35	1.10	1.50		3.88
--do--		1	2.10	1.10	1.50		3.47
--do--		1	2.33	1.10	1.50		3.84
--do--		1	2.36	1.10	1.50		3.89
--do--		1	2.25	1.10	1.50		3.71
--do--		1	2.36	1.10	1.50		3.89
Excavation for Compound Wall							
Footings		39	1.40	1.40	1.20		91.73
Wall		1	5.75	1.10	1.00		6.33
--do--		1	5.10	1.10	1.00		5.61
--do--		1	16.00	1.10	1.00		17.60
--do--		1	7.75	1.10	1.00		8.53
--do--		1	15.05	1.10	1.00		16.56
--do--		1	0.85	1.10	1.00		0.94
--do--		1	11.45	1.10	1.00		12.60
--do--		1	0.70	1.10	1.00		0.77
				Total Quantity			**205.99**

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Yelahanka zone

Development of Dobhighat in Ward No.01

Bill- Pre Measurements 29-11-22

2 KSRB 2-2 : Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. KSRB 2-2.1: - do - in ordinary soil. No. KBS 2.1(a) / 2.3.5 P.No.06 It No.2.1

Excavation for footing, Building	Cum					Ch 16k
--do--		15 -	1.70 -	1.70 -	1.50 -	65.03
--do-- Staircase		1 -	1.20 -	0.80 -	1.50 -	1.44
				Total Quantity		66.47

29/11/22

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Yelahanka zone

Development of Dobhighat in Ward No.01

Bill- Pre Measurements 22-12-22

3 KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 P.No.13 It No.4.3

PCC	Cum					
Footings		15	1.70	1.70	0.15	6.50
--do--		1	1.20	0.80	0.15	0.14
--do--						
PCC for SSM		1	2.53	1.10	0.15	0.42
--do--		1	2.30	1.10	0.15	0.38
--do--		1	2.53	1.10	0.15	0.42
--do--		1	2.56	1.10	0.15	0.42
--do--		1	2.45	1.10	0.15	0.40
--do--		1	2.56	1.10	0.15	0.42
--do--		1	2.55	1.10	0.15	0.42
--do--		1	2.30	1.10	0.15	0.38
--do--		1	2.53	1.10	0.15	0.42
--do--		1	2.56	1.10	0.15	0.42
--do--		1	2.45	1.10	0.15	0.40
--do--		1	2.56	1.10	0.15	0.42
Excavation for Compound Wall						
Footings		39	1.40	1.40	0.15	11.47
Wall		1	6.35	1.10	0.15	1.05
--do--		1	5.50	1.10	0.15	0.91
--do--		1	18.00	1.10	0.15	2.97
--do--		1	8.75	1.10	0.15	1.44
--do--		1	17.05	1.10	0.15	2.81
--do--		1	1.05	1.10	0.15	0.17
--do--		1	12.85	1.10	0.15	2.12
--do--		1	0.80	1.10	0.15	0.13
DPC For Compound Wall		1	120.00	0.45	0.10	5.40
			Total Quantity			**40.05**

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Yelahanka zone

Development of Dobhighat in Ward No.01

Bill- Pre Measurements 19-1-23 - 08-02-23.

4 KSRB 4-1.5 : Providing and laying in position plain cement concrete of Mix M20 with OPC @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 P.No.13 It No.4.5

Footings	Cum					
Building footings		15	1.50	1.5	0.6	20.25
Staircase footing		1	1.00	0.6	0.6	0.36
Compound footings		39	1.20	1.2	0.6	33.70
Columns						
Up to Plinth beam bottom						
Building		15	0.45	0.23	0.6	0.93
Compound		39	0.25	0.15	0.45	0.66
Staircase						
Pedestal		1	1.00	0.3	0.45	0.14
Plinth Beams						
B1 & B2		2	10.50	0.225	0.3	1.42
B3 & B4		2	10.95	0.225	0.3	1.48
B5 & B6		2	11.38	0.225	0.3	1.54
Deduct Columns		-2	0.45	0.23	0.15	-0.03
Machine Platform		1	2.10	6.05	0.15	1.91
for Compound Wall Coping Concrete	Sqm					
		1	120.35	0.15	0.15	2.71
			Total Quantity			**65.05**

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Yelahanka zone

Development of Dobhighat in Ward No.01

Bill- Pre Measurements 06-03-23 - 24-03-23

KSR 4.2.7 : Providing and laying in position reinforced cement concrete of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, lintles, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications.Specification No. KBS 4.1, 4.6 P.No.14 It No.4.12

Columns	Cum					
Pedastals building Column		14	0.45	0.23	0.8	1.16
Building Columns		14	0.45	0.23	3.2	4.64
Compound wall		39	0.25	0.15	1.85	2.71
Staircase column		1	0.45	0.23	3.2	0.33
Beams						
B1 & B2		2	10.50	0.225	0.45	2.13
B3 & B4		2	10.95	0.225	0.45	2.22
B5 & B6		2	11.38	0.225	0.45	2.30
Slab						
Rcc Slab		1	12.30	12.3	0.15	22.69
Staircase						
Waist slab		1	8.35	1	0.15	1.25
Midlanding		1	2.60	1	0.15	0.39
Steps		16	1.00	0.3	0.15	0.72
Staircase beam		1	2.53	0.225	0.3	0.17
Lintels						
Lintel		2	3.58	0.15	0.15	0.16
--do--		2	3.35	0.15	0.15	0.15
--do--		2	3.58	0.15	0.15	0.16
--do--		2	3.83	0.15	0.15	0.17
--do--		2	3.72	0.15	0.15	0.17
--do--		2	3.83	0.15	0.15	0.17
				Total Quantity		41.69

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Development of Dobhighat in Ward No.01

Bill- Pre Measurements 20-12-22

6 KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 P.No.16 It No.4.28

For Footings	Sqm					
Footings						
Building		15	6.00		0.6	54.00
Compound wall		39	4.80		0.45	84.24
Staircase Footing		1	3.20		0.45	1.44
Pedastals						
Staircase		1	2.60		0.45	1.17
			Total Quantity			**140.85**

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Development of Dobhighat in Ward No.01

Bill- Pre Measurements 24-12-22

7	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 P.No.16 It No.4.32						
	Ground floor						
	Columns	Cum	14	1.35		4.1	77.49
	Building		39	2.70		2.35	247.46
	Compound		1	1.36		4.1	5.58
	Staircase column						
	Ground Floor						
	Staircase		1	8.35	1		8.35
	Waist slab		17	1.00		0.15	2.55
	Steps		1	2.30	0.83		1.91
	Staircase beam		2	6.82		0.2	2.73
	Sides						
						Total Quantity	346.06

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Yelahanka zone

Development of Dobhighat in Ward No.01

Bill- Pre Measurements 2-1-23 to 19-2-23

8	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 P.No.17 It No.4.34						
	Ground Floor						
	Plinth Beams						
	B1 & B2	2	2	10.50		0.3	12.60
	B3 & B4	2	2	10.95		0.3	13.14
	B5 & B6	2	2	11.38		0.3	13.66
	Roof Beams						
	B1 & B2 Sides	2	2	10.50		0.45	18.90
	Bottom	1	2	10.50	0.225		4.73
	B3 & B4	2	2	10.95		0.45	19.71
		1	2	10.95	0.225		4.93
	B5 & B6	2	2	11.38		0.45	20.48
		1	2	11.38	0.225		5.12
	Lintels						
	Lintel	2	2	3.58		0.15	2.15
	--do--	2	2	3.35		0.15	2.01
	--do--	2	2	3.58		0.15	2.15
	--do--	2	2	3.83		0.15	2.30
	--do--	2	2	3.72		0.15	2.23
	--do--	2	2	3.83		0.15	2.30
	--do--						
	Slab		1	11.90	11.9		141.61
	Rcc Slab		1	2.30	1.2		2.76
	Staircase Midlanding		4	12.30		0.15	7.38
	Roof sides						
				Total Quantity			**278.15**

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Yelahanka zone

Development of Dobhighat in Ward No.01

	Bill- Pre Measurements 20-1-23						
9	KSRB 4.2.10 : Providing and laying in position reinforced cement concrete of design Mix M20 with OPC @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175cum and fine aggregtes @ 0.0345cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM finishing, curing, complete but excluding cost of reinforcement as per specifications Specification No KBS 4.1.4.6 P No 15 It No 4.19						
	Ground Floor		11	1.80	0.45		8.91
	Chajja		1	2.70	0.45		1.22
	--do--						
					Total Quantity		10.13

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Development of Dobhighat in Ward No.01

Bill- Pre Measurements 20-1-23

10	KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for chajja, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 P.No.17 It No.4.37						
	Ground Floor		11	1.80	0.45		8.91
	Chajja		1	2.70	0.45		1.22
	--do--						
					Total Quantity		**10.13**

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Yelahanka zone

Development of Dobbighat in Ward No.01

Bill- Pre Measurements 28-12-22 to 19-2-23

11	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3 - do - TMT bars Fe 500 P.No.18 It No.4.46						
	Ground Floor	Tonne					
						Sub Total=	10431.16
	(Calculation sheet Attached)						
						Total Quantity KGS	10.43

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Asst. Executive Engineer
Project Division
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Location: , Bangalore

Measurements of Steel Fabrication

SL. No.	Location	Dia of Bar	No of Bars			Length	Dia of bars 8 mm	10 mm	12 mm	16 mm	20 mm
1	**Footings Mat**										
	Long Bars	12	15	1	16	1.71	-	-	410.40	-	-
	Short Bars	12	15	1	16	1.71	-	-	410.40	-	-
2	**Pedesta**						-	-	-	-	-
	Vertical Bars						-	-	-	-	-
	Dist bars						-	-	246.00	-	-
3	**Columns**	12	15	1	8	2.05	-	-	-	-	-
	Vertical bars	8	15	1	12	2.30	414.00	-	-	-	1,179.00
	Stirrups 8Ø @ 150 c/c						-	-	-	-	-
		20	15	1	12	6.55	-	-	-	-	-
4	Plinth Beams	8	15	1	43	1.25	806.25	-	-	-	-
	P1						-	-	-	-	-
	Top & Bottom bars						-	-	-	-	-
	Stirrups 8Ø @ 125 c/c						-	-	200.80	-	-
	P2	12	4	2	2	12.55	-	-	-	-	-
	Top & Bottom bars	8	4	1	99	1.25	495.00	-	-	-	-
	Stirrups 8Ø @ 125 c/c						-	-	100.40	-	-
		12	2	2	2	12.55	-	-	-	-	-
5	Lintel	8	2	1	99	1.25	247.50	-	-	-	-
	Bottom Bars						-	-	-	-	-
	Top Bars						-	-	99.60	-	-
	Stirrups 8Ø @ 125 c/c	12	2	2	2	12.45	-	99.60	-	-	-
		10	2	2	2	12.45	-	-	-	-	-
6	Chajja Bars Main bars	8	4	1	99	0.58	229.68	-	-	-	-
	Dist bars						-	127.14	-	-	-
		10	12	1	13	0.82	-	-	-	-	-
7	Beams	8	12	1	4	1.75	84.00	-	-	-	-
	B1						-	-	-	-	-
	Top & Bottom Main Bars						-	-	-	-	204.00
	Bottom Extra bars	20	4	1	4	12.75	-	-	-	102.00	-
	Top Extra Bars	16	4	1	2	12.75	-	-	-	64.00	-
	Stirrups 8Ø @ 125 c/c	16	4	1	2	8.00	-	-	-	-	-
	B2	10	4	1	123	1.25	-	615.00	-	-	-
	Top & Bottom Main Bars						-	-	-	-	204.00
	Bottom Extra bars	20	4	1	4	12.75	-	-	-	102.00	-
	Top Extra Bars	16	4	1	2	12.75	-	-	-	64.00	-
	Stirrups 8Ø @ 125 c/c	16	4	1	2	8.00	-	-	-	-	-
		10	4	1	123	1.25	-	615.00	-	-	-
8	Slab						-	-	-	-	-
	Long Bars	10	1	1	124	12.25	-	1,519.00	-	-	-
	Short Bars	10	1	1	124	12.25	-	1,519.00	-	-	-
	Cut Bars Above beams	8	1	4	71	2.20	624.80	-	-	-	-
	Dist bars	8	1	4	11	12.25	539.00	-	-	-	-
	Cut Bars Above beams	8	1	4	71	1.20	340.80	-	-	-	-
	Dist bars	8	1	4	6	12.25	294.00	-	-	-	-
							-	-	-	-	-
9	Stair case						-	-	-	-	-
	Footing top & Bottom	12	1	1	6	1.30	-	-	7.80	-	-
	--do--	12	1	1	6	1.30	-	-	7.80	-	-
	Stair Case long Bars	12	1	1	11	5.65	-	-	62.15	-	-
	Cut Extra bars	12	1	2	11	2.50	-	-	55.00	-	-
	Dist bars	10	1	1	29	0.95	-	27.55	-	-	-
	Midlanding						-	-	-	-	-
	Top & Bottom Main bars	12	1	2	11	2.45	-	-	53.90	-	-
	Stair Case long Bars	12	1	1	11	5.65	-	-	62.15	-	-
	Cut Extra bars	12	1	2	11	2.50	-	-	55.00	-	-
	Dist bars	10	1	1	29	0.95	-	27.55	-	-	-
							-	-	-	-	-
							-	-	-	-	-
					Total Length		*4075.03*	*4549.84*	*1771.40*	*332.00*	*1587.00*
					Unit/ Kg		0.39	0.62	0.89	1.58	2.47
					Weight in Kgs		**1589.26**	**2820.90**	**1576.55**	**524.56**	**3919.89**

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	Diameter of Bar						Length	Unit	Unit Weight		Weight in Kgs
	8mm dia TMT Steel						4075.03	Mts	0.39	Kg/M	1589.26
	10mm dia TMT Steel						4549.84	Mts	0.62	Kg/M	2820.90
	12mm dia TMT Steel						1771.40	Mts	0.89	Kg/M	1576.55
	16mm dia TMT Steel						332.00	Mts	1.58	Kg/M	524.56
	20mm dia TMT Steel						1587.00	Mts	2.47	Kg/M	3919.89
									Total		**10431.18**
									Say		**10.43**
											MT

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Yelahanka zone

Development of Dobhighat in Ward No.01

Bill- Pre Measurements 16-12-22

12	KSRB 5.2 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 KSRB 5.2-3 : - do - cement mortar 1:6 KBS 5.1.13 P.No.25 It No.5.6						
	SSM 1st Step	Cum					
	Long wall		2	12.75	0.90	0.60	13.77
	Short wall		2	11.17	0.90	0.60	12.06
	Deduct Columns		-12	0.45	0.23	0.60	-0.75
	Compund wall SSM						
	1st Step		1	10.85	0.90	0.60	5.86
	--do--		1	7.05	0.90	0.60	3.81
	--do--		1	30.95	0.90	0.60	16.71
	--do--		1	13.90	0.90	0.60	7.51
	--do--		1	30.05	0.90	0.60	16.23
	--do--		1	1.65	0.90	0.60	0.89
	--do--		1	22.25	0.90	0.60	12.02
	--do--		1	1.38	0.90	0.60	0.74
	Deduct Columns		-39	0.25	0.15	0.60	-0.88
				Total Quantity			87.97

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka zone

Development of Dobhighat in Ward No.01

Bill- Pre Measurements 20-12-22

13 KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 P.No.25 It No.5.9

	Cum					
SSM 2nd Step		2	12.45	0.90	0.45	10.08
Long wall		2	11.47	0.90	0.45	9.29
Short wall		-12	0.45	0.23	0.45	-0.56
Deduct Columns						
Compund wall SSM		1	10.55	0.60	0.45	2.85
2dn Step		1	7.35	0.60	0.45	
--do--		1	30.65	0.60	0.45	8.28
--do--		1	14.20	0.60	0.45	3.83
--do--		1	29.75	0.60	0.45	8.03
--do--		1	1.95	0.60	0.45	0.53
--do--		1	21.95	0.60	0.45	5.93
--do--		1	1.38	0.60	0.45	0.37
--do--						
Deduct Columns		-39	0.25	0.15	0.45	-0.66
			Total Quantity			**49.96**

A.E.E. (Project)

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Yelahanka zone

Development of Dobhighat in Ward No.01

Bill- Pre Measurements 10-2-23

14	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 - do - with solid concrete blocks of size 400x200x200mm P.No.27 It No.5.26.1						
Ground Floor	SQM						
Short Wall		2	4.06		2.9	23.55	
--do--		2	3.72		2.9	21.58	
--do--		2	3.83		2.9	22.21	
Long Wall		2	3.58		2.9	20.76	
--do--		2	3.80		2.9	22.04	
--do--		2	4.05		2.9	23.49	
Deductions							
Door		-1	2.40		2.5	-6.00	
Windows		-11	1.50		1.2	-19.80	
Ventilators		-3	0.60		0.6	-1.08	
Parapet Wall							
Short Wall		2	4.06		0.4	3.25	
--do--		2	3.72		0.4	2.98	
--do--		2	3.83		0.4	3.06	
Long Wall		2	3.58		0.4	3.04	
--do--		2	3.80		0.4	3.24	
--do--		2	4.05				
Compound wall		1	1.30		1.85	2.41	
--do--		1	14.00		1.85	25.90	
--do--		1	1.70		1.85	3.15	
--do--		1	2.20		1.85	4.07	
--do--		1	23.85		1.85	44.12	
--do--		1	13.45		1.85	24.88	
--do--		1	27.45		1.85	50.78	
--do--		1	7.60		1.85	14.06	
--do--		1	8.00		1.85	14.80	
--do--							
				Net Qty			**309.35**

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